

ELR Series

線性馬達機械手(含馬達與控制器)

一般環境 / 軸棒線馬

Standard / Linear Shaft Motor

CONTENTS

線性馬達機械手(含馬達與控制器)-ELR Series

軸棒驅動 / 一般環境

小型 SMALL

ELR20



磁棒外徑 \varnothing 22mm
最大行程 990mm
連續可搬重量 15kg

中型 MEDIUM

ELR25



磁棒外徑 \varnothing 25mm
最大行程 1300mm
連續可搬重量 24kg

大型 LARGE

ELR32



磁棒外徑 \varnothing 32mm
最大行程 1940mm
連續可搬重量 51kg



規格索引 Spec Index

線性馬達機械手(含馬達與控制器) Linear Motor Robot

使用環境 Use Where	傳動方式 Drive mode	本體寬幅 Width of profile (mm)	仕樣 Specification	馬達數量 No. of motor	控制器容量 Controller capacity	重複精度 Repeatability (mm)	磁棒外徑 Outer dia. (mm)	連續推力 Continuous thrust (N)	連續可搬重量 Continuous payload (kg)	最高速度 Maximum speed (mm/s)	標準行程及最高使用速度 Stroke(mm) & Maximum Speed(mm/s)																				代表速度 Speed	
											行程 Stroke	50	75	100	150	200	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
一般環境 Standard Environment	軸 棒 型 線 性 馬 達 Linear Motor Robot	95	ELR20-04-N	單馬達 Single motor	200W	±0.002mm	20	44	12	2500																						
			ELR20-04-D	雙馬達 Double motor	200W	±0.002mm		44	12	2500																						
			ELR20-05-N	單馬達 Single motor	200W	±0.002mm		55	15	2500																						
			ELR20-05-D	雙馬達 Double motor	200W	±0.002mm		55	15	2500																						
		112	ELR25-04-N	單馬達 Single motor	400W	±0.002mm	25	64	16	2500																						
			ELR25-04-D	雙馬達 Double motor	400W	±0.002mm		64	16	2500																						
			ELR25-06-N	單馬達 Single motor	400W	±0.002mm		96	24	2500																						
			ELR25-06-D	雙馬達 Double motor	400W	±0.002mm		96	24	2500																						
		120	ELR32-06-N	單馬達 Single motor	750W	±0.002mm	32	140	35	2500																						
			ELR32-06-D	雙馬達 Double motor	750W	±0.002mm		140	35	2500																						
			ELR32-08-N	單馬達 Single motor	750W	±0.002mm		187	51	2500																						
			ELR32-08-D	雙馬達 Double motor	750W	±0.002mm		187	51	2500																						

※連續可搬重量為在線速度1m/s，最大加速度5m/s²之數據。

The continuous payload is the data when the robot runs with maximum speed 1m/s and acceleration 5m/s².

內部結構圖 Inner Structure

軸棒線馬
Linear Shaft Motor

The diagram illustrates the internal structure of a linear shaft motor, divided into several functional sections:

- 滑座 Slider**: Shows three types of carriage options: Double slider double motor drive, Double slider single motor drive, and Long slider single motor drive.
- 滑軌 Linear guide**: Describes the use of THK quiet-type high-precision guideways. It includes a THK logo and a note about low noise during operation, which enhances smoothness, life, and lubrication efficiency. It is suitable for high-speed, quiet, and low-dust requirements.
- 馬達 Linear motor**: Details the high-efficiency cooling module. It mentions built-in digital Hall sensors for servo-on detection and built-in temperature sensors for monitoring internal motor temperature to prevent overheating.
- 光學尺 Encoder**: Offers optional optical or magnetic encoders for precision measurement, with a note that the magnetic encoder has a resolution up to 0.001mm.
- 本體 Frame body**: Explains the high-rigidity body and top cover. The body is made of one-piece molded and extruded aluminum, and the top cover has a special anti-flexing design to prevent distortion during long strokes.

多樣滑座特注 Various Carriage Options

雙滑座雙馬達型 Double slider double motor drive

雙滑座單馬達型 Double slider single motor drive

滑座加長單馬達型 Long slider single motor drive

採用THK靜音型高精度滑軌 THK guiding system

靜音運轉: Quiet operation:
可有效較低運轉時噪音、提升運轉平順性、壽命與潤滑效率。具有更廣泛的產業應用性，更適用於高速、寧靜與低發塵需求的高科技產業。

Lower noise during operation can effectively enhance the smoothness life and lubrication efficiency. It is broader in different industrial application and more suitable for high speed, Quiet and low dust requirement of high-tech industries.

定子：磁棒 Stator : Magnetic bar

動子：線性馬達模組 Rotor: Linear motor

高效率散熱機構 High efficiency radiating module

內建數位霍爾感測器(Digital Hall Sensor)的功能 Built-in digital Hall sensors (Digital Hall Sensor) function

>> 馬達重新上電(Servo On) 時, 不需位移即可找到相位角。
>> Motor power is on again (Servo On), the phase angle can be found without any movement.

內建溫度感測器的功能 Built-in temperature sensor function

>> 馬達內部安裝熱敏電阻型溫度感測器, 可藉由驅動器或電阻計立即獲得馬達內部的實際溫度,避免因溫度上升而造成馬達過熱而損壞。

>> By installed the motor thermistor type temperature sensor, the actual temperature inside motor can be measured by driver or resistance meter immediately in order to avoid the damage caused by temperature rise and motor overheating.

高剛性本體/高剛性上蓋 High rigidity body / High rigidity cover

高剛性本體: High rigidity body

採用一體成形鋁擠型結構並經元素分析，得到最好的剛性與重量比之結構設計。
The profile is made by one-piece molded and extruded aluminum structure. By doing elemental analysis, we can get the best the ratio of rigidity and weight of the structure.

耐繞曲上蓋: High rigidity cover

特殊抗繞曲設計，長行程使用時，上蓋不容易扭曲變形。
Special anti-flexing design. When it is long stroke, the cover is not easy to distort.

可選配光學尺及磁性尺 Encoder

光學尺或磁性尺彈性搭配 Optical encoder or magnetic encoder is optional.

>> 考慮使用環境的需求，有光學尺與磁性尺的設計可選擇。依據磁性尺選擇，可達到分解能0.001mm的高精度。
>> Due to the requirement of different environments, optical encoder or magnetic encoder is optional. The highest resolution of magnetic encoder can up to 0.001mm.

重複定位精度±0.002mm Repeatability accuracy ±0.002mm

>> 超越滾珠螺桿的精度需求。
>> Exceed the accuracy of ball screw.

*光學尺可特注外置形式。 * External mounted linear scale can be chosen.

最大行程
Maximum Stroke 990mm最高速度
Maximum Speed 2500mm/s連續推力
Continuous Thrust 55N連續可搬重量
Continuous Payload 15kg磁棒外徑
Outer dia. of stator Ø22mm直線滑軌
Linear Guide 24X8.5
1 pcs

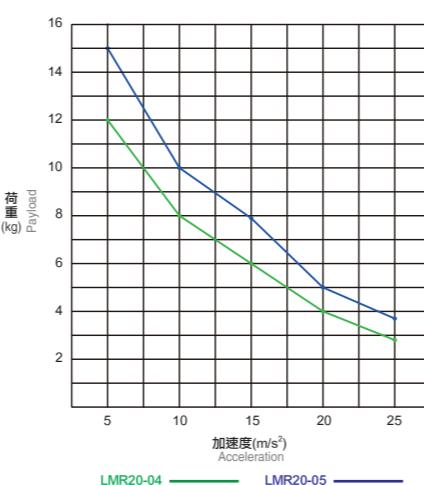
此圖僅供參考，出貨規格詳見尺寸圖面
The picture is just for the reference. Please check the the
actual dimensions on the drawing.

基本仕樣 Specification

規格 Spec	型號 Model	LMR20-04	LMR20-05
位置重複精度 Repeatability (mm)		±0.002mm	
最大推力 Max. Thrust (N)	177	221	
連續推力 Continuous Thrust (N)	44	55	
連續可搬重量 Continuous Payload (kg)	12	15	
標準行程 Stroke / Pitch (mm)	單馬達 N 雙馬達 D 150-990mm/60間隔 80-800mm/60間隔	180-960mm/60間隔 80-740mm/60間隔	
最高速度 Maximum Speed (mm/s) ^{※1}	2500mm/s		
定子外徑 Outer Dia. of Stator	Ø 20		
光學尺廠牌 Brand of Linear Scale	RENISHAW		
讀頭 Reader	RH200X05A00A		
Z相原點 Origin of Z Phase	A-9541-0037		
光學尺解析度 Resolution of Linear Scale	0.001mm		

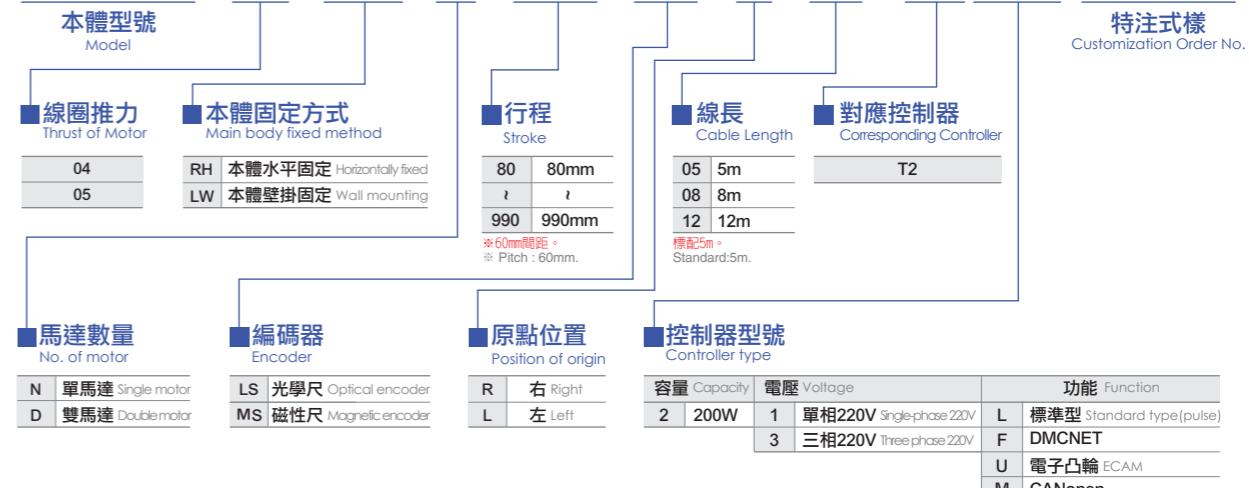
※1 連續可搬重量為到達線速度1m/s, 最大加速度5m/s²固定行程來回, 不同情況會有不同。
The continuous payload is the data when the robot runs with maximum speed 1m/s and acceleration 5m/s². Different application will have different result.

加速度-連續可搬重量 Acceleration-Continuous Payload



型號表示方式 Ordering Method

ELR20 - 04 - RH - N - 990 - LS - R - 05 - T2 21L - A001

特注式樣
Customization Order No.

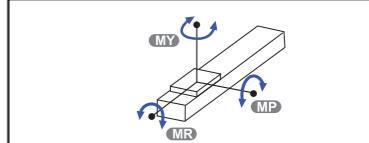
容許負載力距表 Allowable Overhang

ELR 20 - 04 - RH	(單位 Unit:mm)				
	速度 Speed (m/s)	荷重 Load (kg)	A	B	C
1	12	375	100	39	
1	5.5	890	253	99	
1.5	6.5	305	143	53	
1.5	3	710	345	128	
2	4	265	193	66	
2	2	559	415	141	
2.5	3.2	250	248	78	
2.5	1.5	559	560	175	
1	15	360	92	29	
1	7.5	790	220	70	
1.5	9.2	256	115	35	
1.5	4.5	570	275	84	
2	5.6	225	390	46	
2	2.5	550	405	115	
2.5	3.8	260	255	67	
2.5	2	515	520	137	

ELR 20 - 04 - LW	(單位 Unit:mm)				
	速度 Speed (m/s)	荷重 Load (kg)	A	B	C
1	12	39	100	374	
1	6	90	230	810	
1.5	7	49	131	280	
1.5	3.5	108	294	600	
2	4	66	193	265	
2	2	142	415	560	
2.5	2.9	86	275	280	
2.5	1.5	175	560	560	
1	15	29	92	355	
1	7.5	70	220	790	
1.5	9	36	120	260	
1.5	4.5	84	275	570	
2	5.7	45	158	220	
2	2.5	115	405	550	
2.5	3.8	67	255	260	
2.5	2	137	520	520	

ELR 20 - 05 - LW	(單位 Unit:mm)				
	速度 Speed (m/s)	荷重 Load (kg)	A	B	C
1	15	29	92	355	
1	7.5	70	220	790	
1.5	9	36	120	260	
1.5	4.5	84	275	570	
2	5.7	45	158	220	
2	2.5	115	405	550	
2.5	3.8	67	255	260	
2.5	2	137	520	520	

靜態容許負載慣量 Static Loading Moment



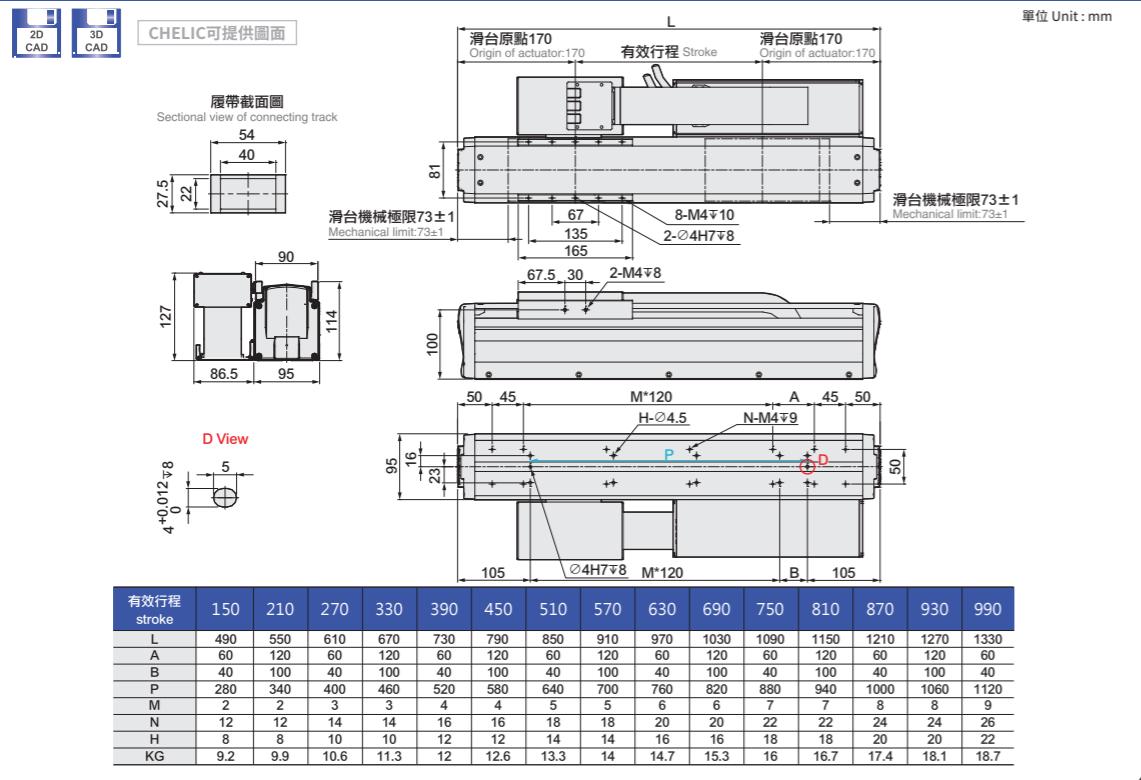
MY	63
MP	63
MR	26
MY	79
MP	79
MR	26

※2 相同速度下加速度時間不同，加速度也隨之變化，荷重也隨之改變，表為加速度時間0.2s。
Even the speed is same, if acceleration and acceleration time is changed, the payload will be different. Above chart is based on acceleration time 0.2 sec.

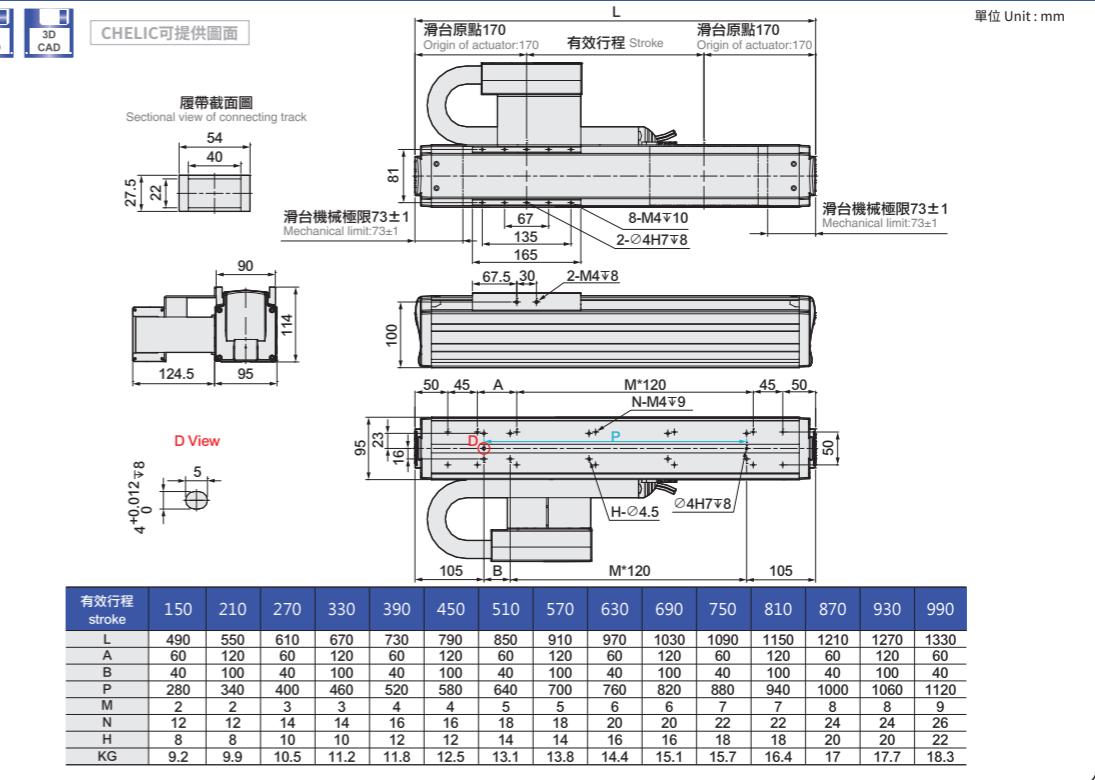
對應控制器一覽表 Corresponding Controller Chart

外觀 Exterior	控制器型號 Controller Model	選配介面 Control Mode		電氣規格 Electrical Spec.	詳細參閱 Reference Page
		標準型 Pulse Control Mode	單相或三相220V Single-phase 220V or Three phase 220V		
	T2	DMCNET	CANopen	P.533	

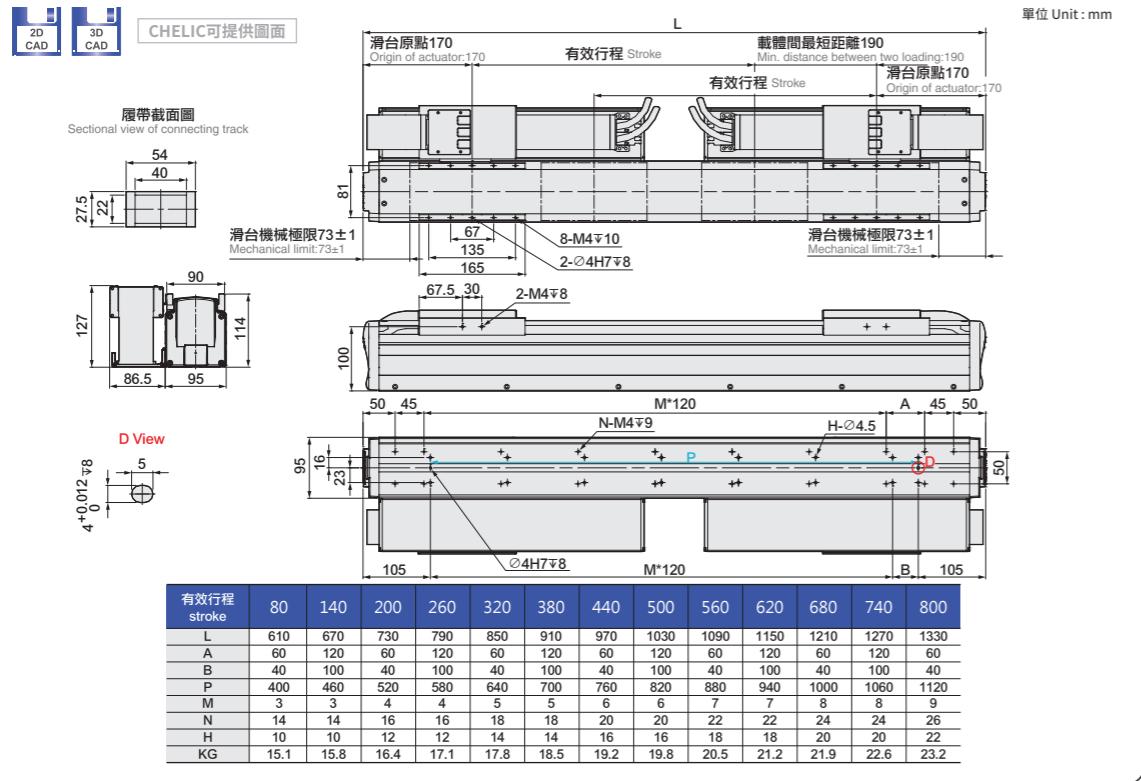
ELR20-04-RH-N



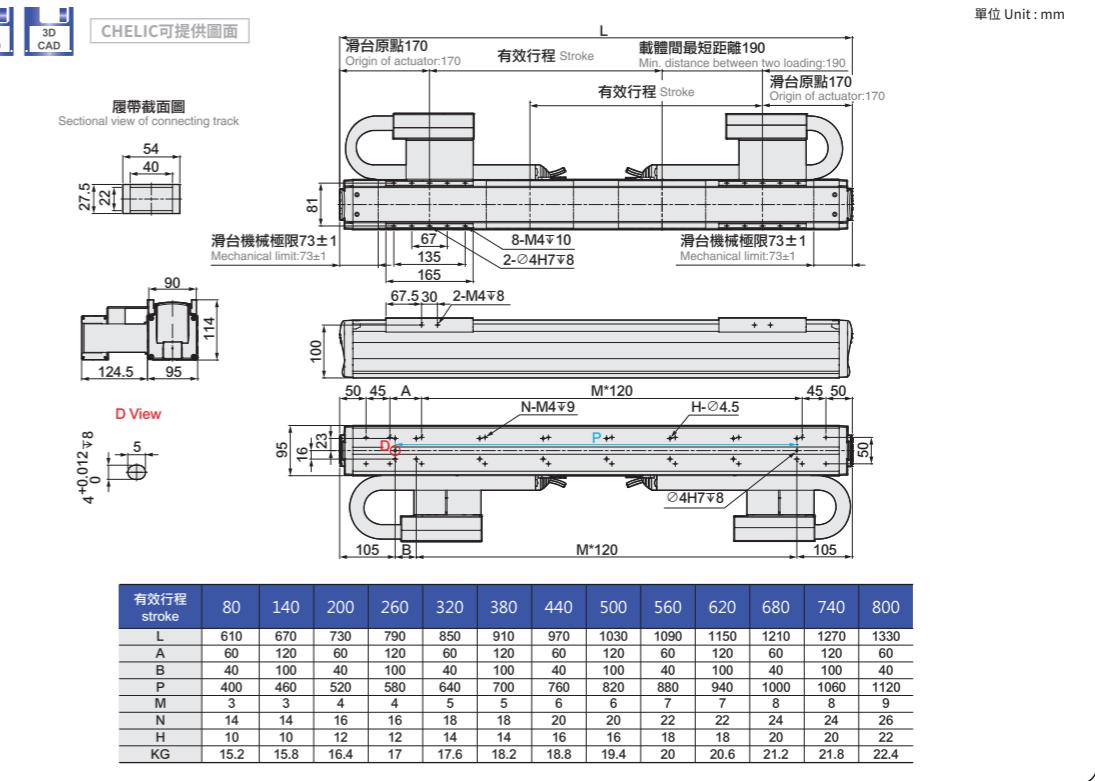
ELR20-04-LW-N



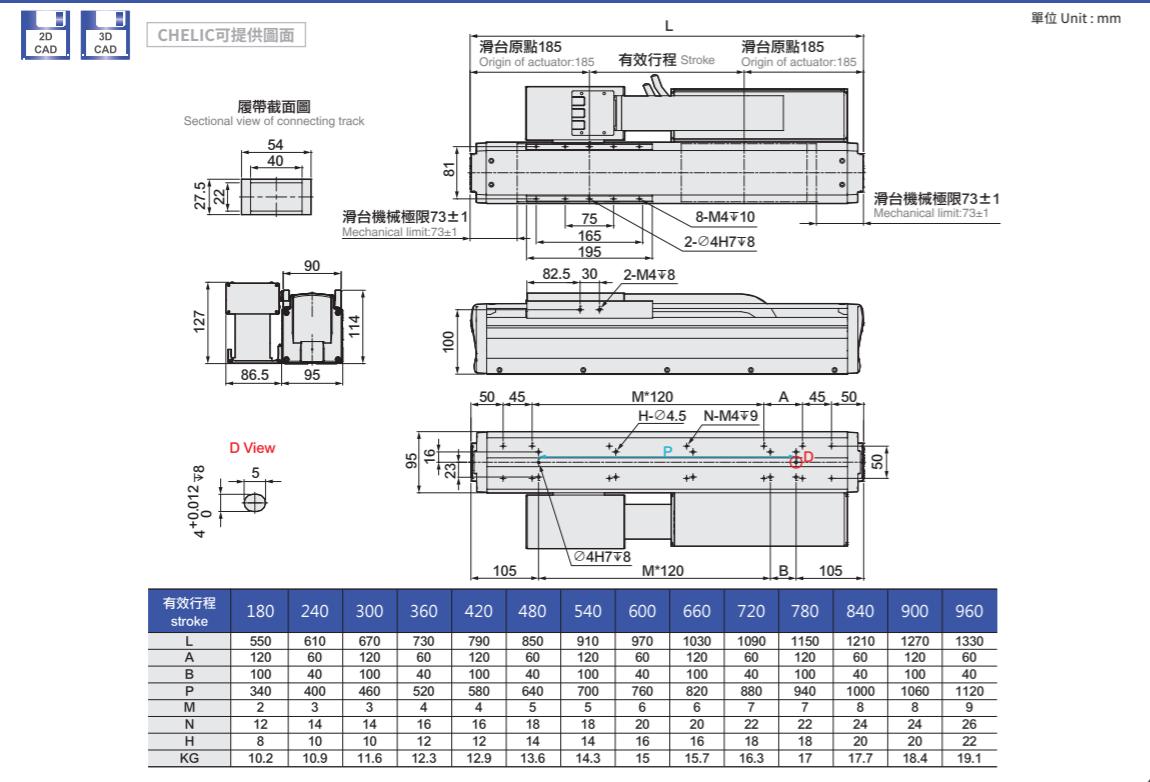
ELR20-04-RH-D



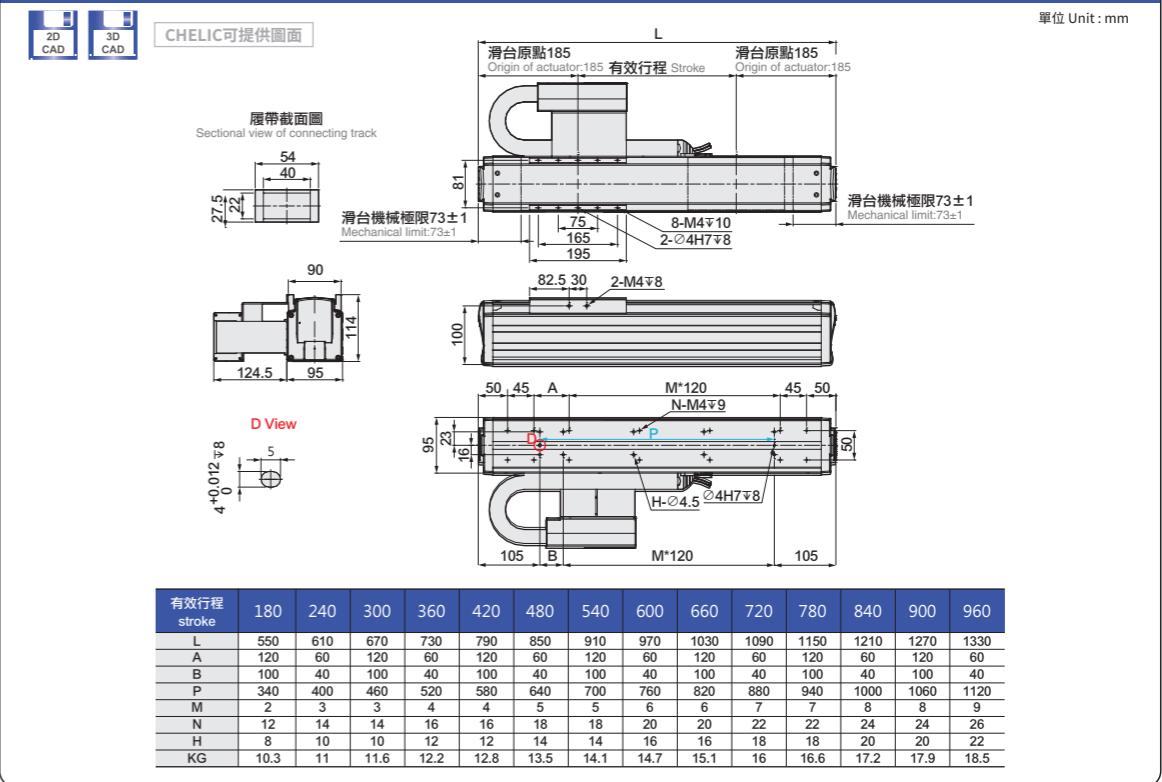
ELR20-04-LW-D



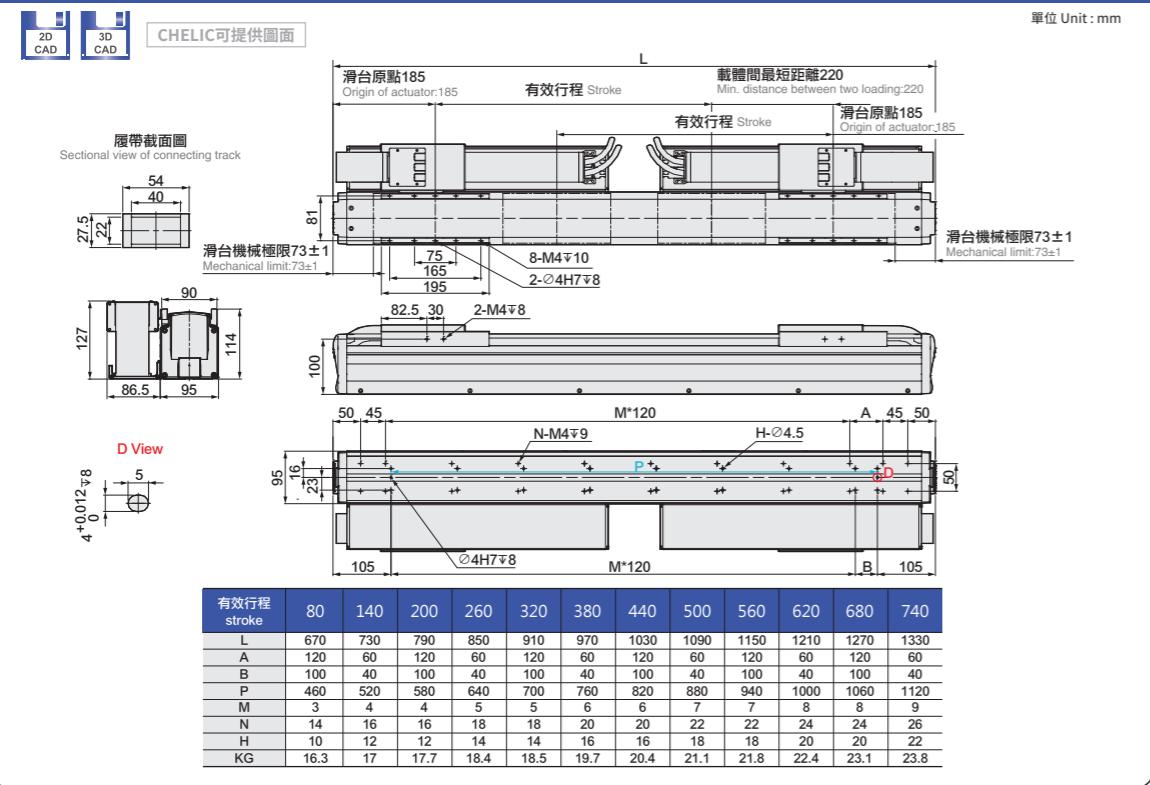
ELR20-05-RH-N



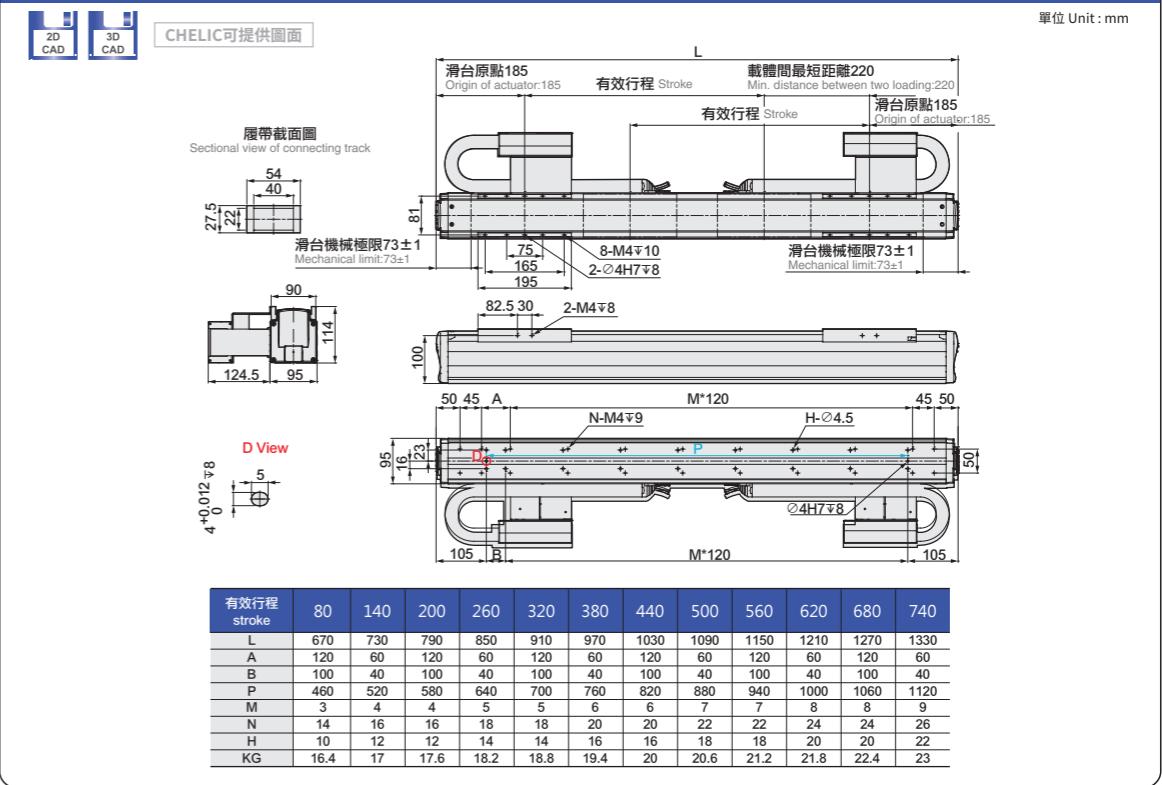
ELR20-05-LW-N



ELR20-05-RH-D



ELR20-05-LW-D



最大行程
Maximum Stroke 1300mm最高速度
Maximum Speed 2500mm/s連續推力
Continuous thrust 96N連續可搬重量
Continuous Payload 24kg磁棒外徑
Outer dia. of stator Ø25mm直線滑軌
Linear Guide 42X9.5
1 pcs

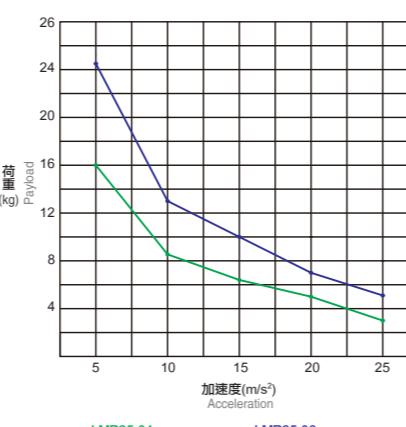
基本仕樣 Specification

規格 Spec	型號 Model	LMR25-04	LMR25-06
位置重複精度 Repeatability (mm)		±0.002mm	
最大推力 Max. Thrust (N)	257	386	
連續推力 Continuous Thrust (N)	64	96	
連續可搬重量 Continuous Payload (kg)	16	24	
標準行程 Stroke / Pitch (mm)	單馬達 N 雙馬達 D	150-1300mm/60間隔 70-1090mm/60間隔	120-1260mm/60間隔 50-1010mm/60間隔
最高速度 Maximum Speed (mm/s) ^{※1}		2500mm/s	
定子外徑 Outer Dia. of Stator		Ø 25	
光學尺廠牌 Brand of Linear Scale		RENISHAW	
讀頭 Reader		RH200X05A00A	
Z相原點 Origin of Z Phase		A-9541-0037	
光學尺解析度 Resolution of Linear Scale		0.001mm	

※1 連續可搬重量為到達線速度1m/s, 最大加速度5m/s²固定行程來回, 不同情況會有不同。
The continuous payload is the data when the robot runs with maximum speed 1m/s and acceleration 5m/s². Different application will have different result.

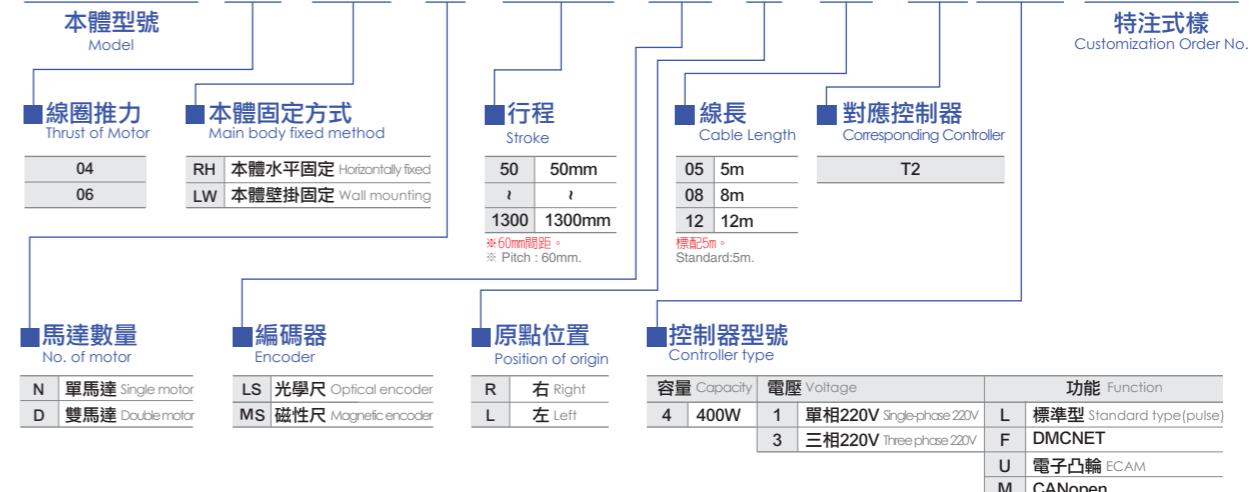
此圖僅供參考，出貨規格詳見尺寸圖面
The picture is just for the reference. Please check the the actual dimensions on the drawing.

加速度-連續可搬重量 Acceleration-Continuous Payload

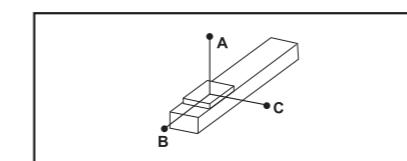


型號表示方式 Ordering Method

ELR25-04-RH-N-1300-LS-R-05-T241L-A001



容許負載力距表 Allowable Overhang



(單位 Unit:mm)

水平安裝 Horizontal Installation ^{※2}

ELR25-04 - RH	速度 Speed (m/s)	荷重 Load (kg)	A	B	C
	1	16	550	151	92
	1	8	1155	333	204
	1.5	8.8	435	210	116
	1.5	4.5	890	440	245
	2	5.3	385	283	138
	2	2.5	850	635	310
	2.5	3.4	460	460	198
	2.5	1.5	1070	1080	465
	1	24.5	440	114	54
	1	12	980	276	132
	1.5	13.7	345	160	72
	1.5	6.5	790	385	170
	2	8.4	305	218	88
	2	4	680	505	202
	2.5	5.6	350	350	127
	2.5	3	685	685	250

(單位 Unit:mm)

壁掛安裝 Wall Installation ^{※2}

ELR25-04 - LW	速度 Speed (m/s)	荷重 Load (kg)	A	B	C
	1	16	92	150	550
	1	8	204	333	1155
	1.5	8.8	116	210	435
	1.5	4.5	246	440	890
	2	5.3	138	284	385
	2	2.5	310	635	850
	2.5	3.4	198	455	458
	2.5	1.5	465	1080	1070
	1	24.5	54	114	440
	1	12	132	275	990
	1.5	13.7	72	160	345
	1.5	7	158	355	730
	2	8.4	88	218	305
	2	4	204	505	680
	2.5	5.6	126	350	350
	2.5	3	250	685	685

(單位 Unit:mm)

壁掛安裝 Wall Installation ^{※2}

ELR25-06 - LW	速度 Speed (m/s)	荷重 Load (kg)	A	B	C
	1	24.5	54	114	440
	1	12	132	275	990
	1.5	13.7	72	160	345
	1.5	7	158	355	730
	2	8.4	88	218	305
	2	4	204	505	680
	2.5	5.6	126	350	350
	2.5	3	250	685	685

(單位 Unit:mm)

壁掛安裝 Wall Installation ^{※2}

LMR25 - 04	MY	112
LMR25 - 04	MP	112
LMR25 - 04	MR	74
LMR25 - 06	MY	147
LMR25 - 06	MP	147
LMR25 - 06	MR	74

(單位 Unit:N.m)

靜態容許負載慣量 Static Loading Moment

LMR25 - 04	MY	112
LMR25 - 04	MP	112
LMR25 - 04	MR	74
LMR25 - 06	MY	147
LMR25 - 06	MP	147
LMR25 - 06	MR	74

(單位 Unit:N.m)

靜態容許負載慣量 Static Loading Moment

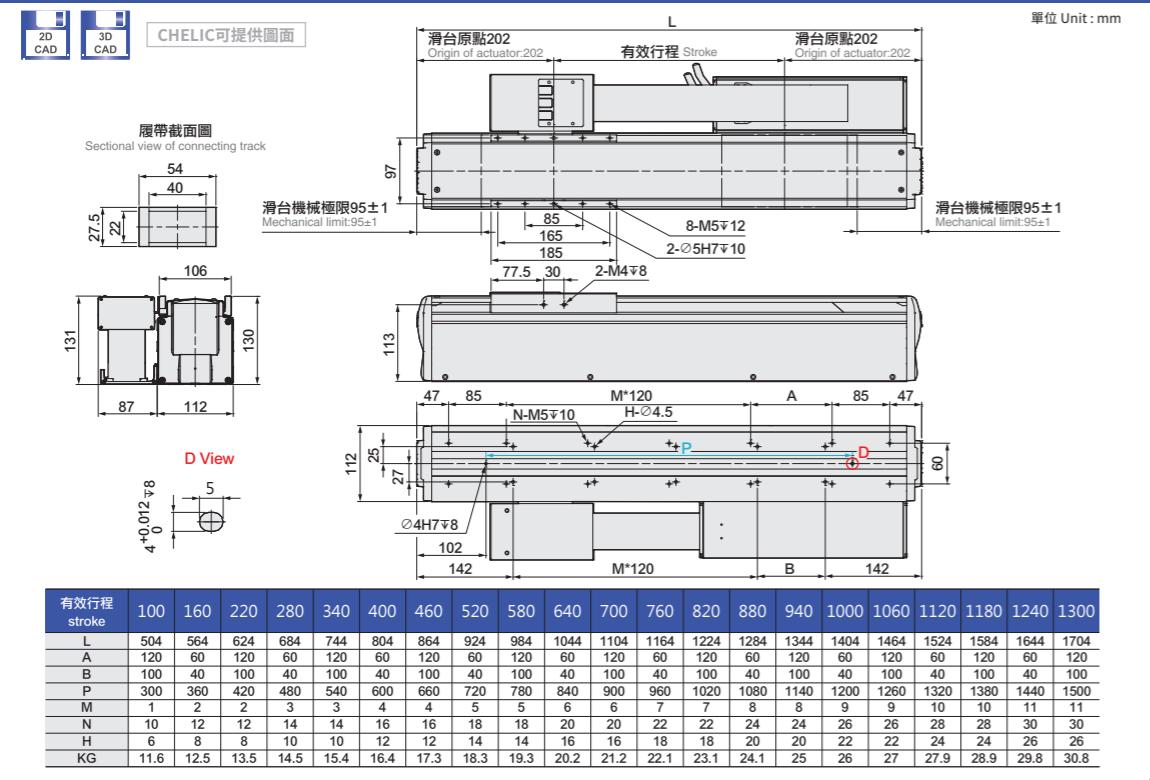
LMR25 - 04 - RH	速度 Speed (m/s)	荷重 Load (kg)	A	B	C
	1	16	92	150	550
	1	8	204	333	1155
	1.5	8.8	116	210	435
	1.5	4.5	246	440	890
	2	5.3	138	284	385
	2	2.5	310	635	850
	2.5	3.4	198	455	458
	2.5	1.5	465	1080	1070

(單位 Unit:mm)

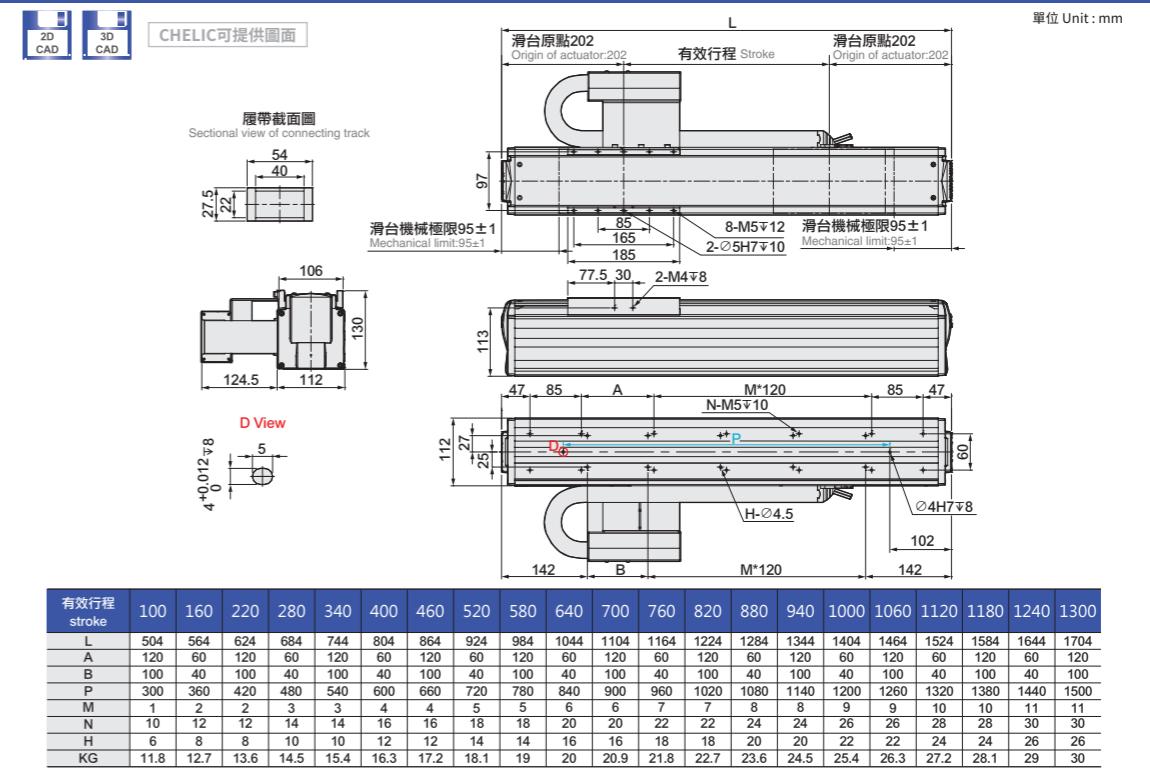
壁掛安裝 Wall Installation ^{※2}

LMR25 - 06 - LW	速度 Speed (m/s)	荷重 Load (kg)	A	B	C
	1	16	92	150	550
	1	8	204	333	1155
	1.5	13.7	72	160	345
	1.5	7	158	355	730
	2	8.4	88	218	305
	2	4	204	505	680
	2.5	5.6</			

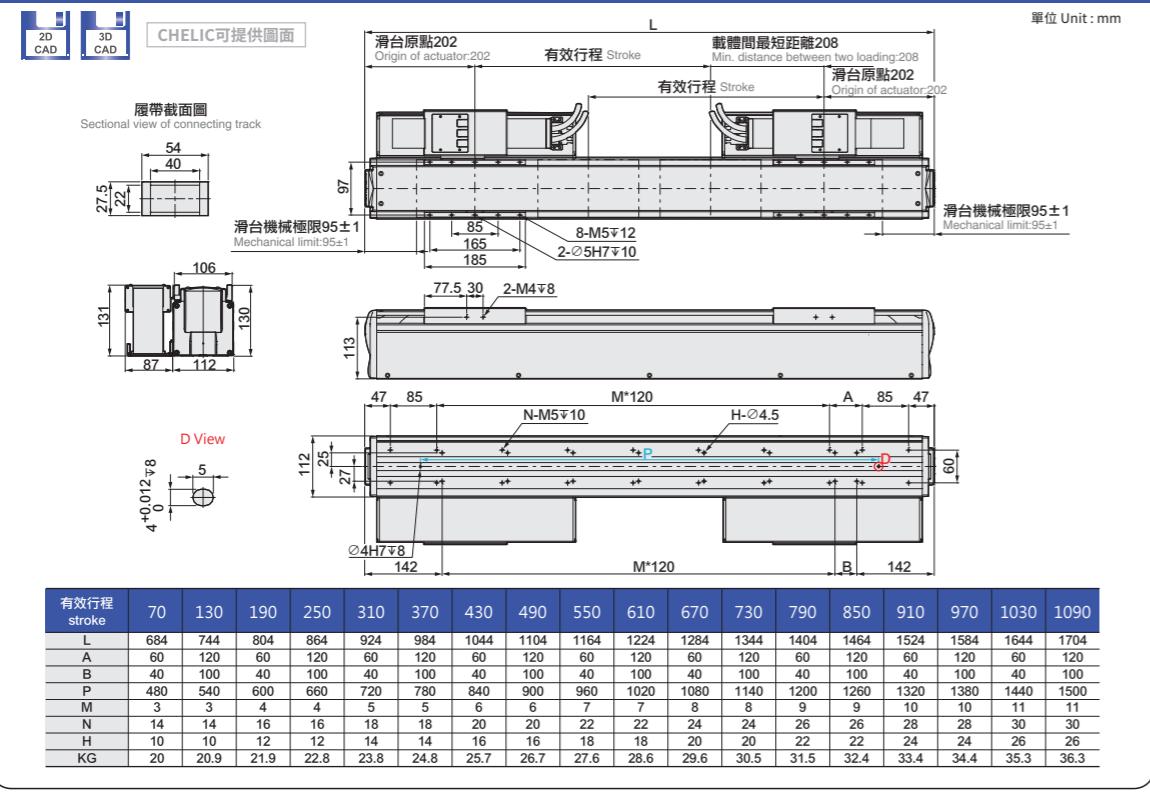
ELR25-04-RH-N



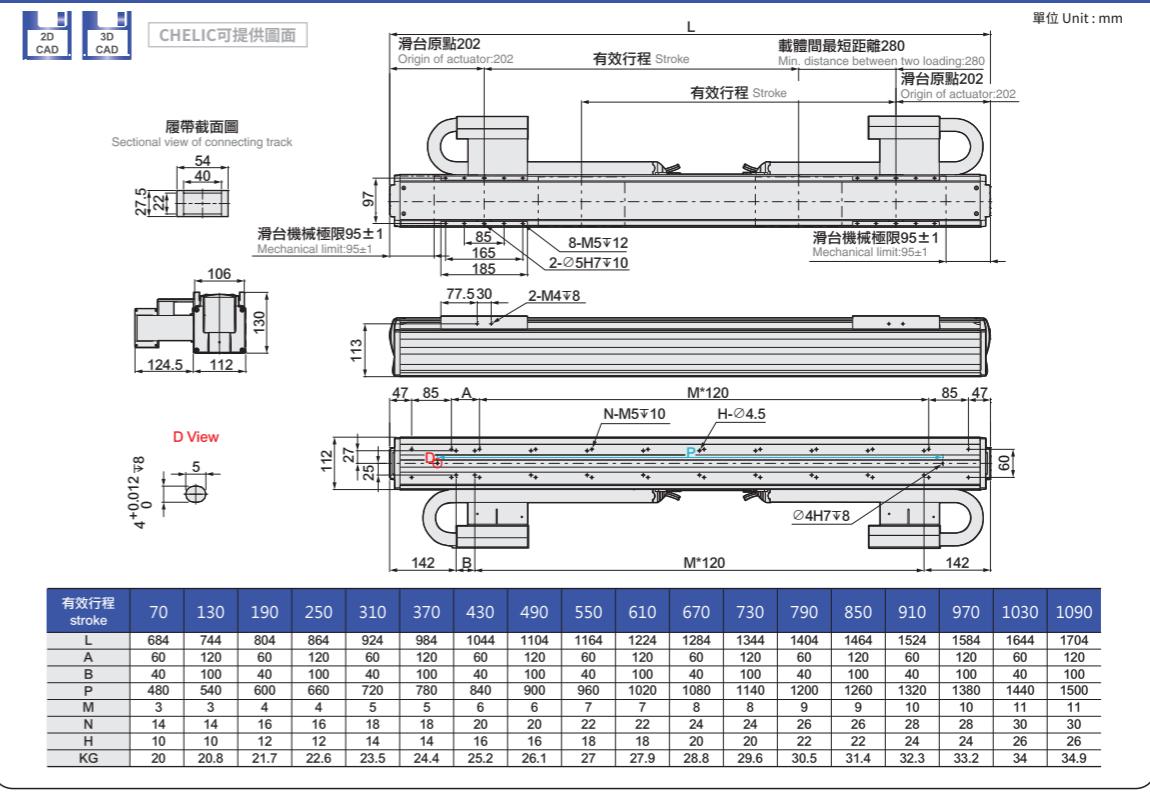
ELR25-04-LW-N



ELR25-04-RH-D



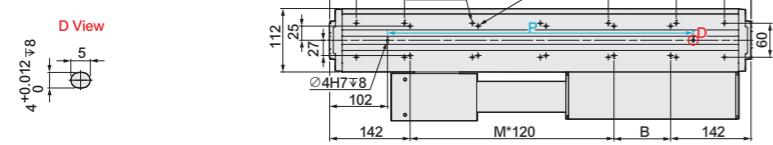
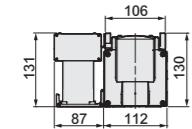
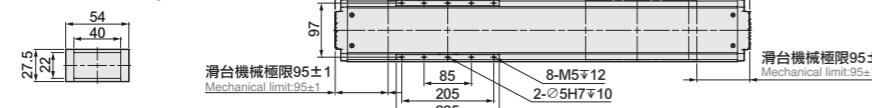
ELR25-04-LW-D



ELR25-06-RH-N



CHELIC可提供圖面

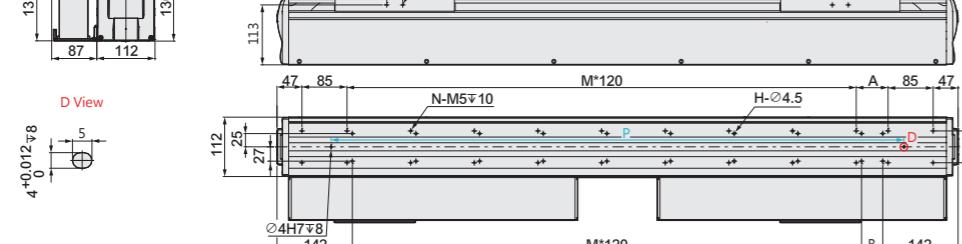
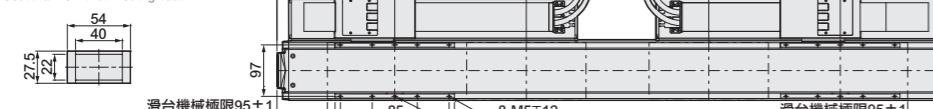
履帶截面圖
Sectional view of connecting track

有效行程 stroke	120	180	240	300	360	420	480	540	600	660	720	780	840	900	960	1020	1080	1140	1200	1260
L	564	624	684	744	804	864	924	984	1044	1104	1164	1224	1284	1344	1404	1464	1524	1584	1644	1704
A	60	120	60	120	60	120	60	120	60	120	60	120	60	120	60	120	60	120	60	120
B	40	100	40	100	40	100	40	100	40	100	40	100	40	100	40	100	40	100	40	100
P	360	420	480	540	600	660	720	780	840	900	960	1020	1080	1140	1200	1260	1320	1380	1440	1500
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
H	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
KG	13.6	14.5	15.5	16.5	17.4	18.4	19.3	20.3	21.3	22.2	23.2	24.1	25.1	26.1	27	28	29	30	30.9	31.8

ELR25-06-RH-D



CHELIC可提供圖面

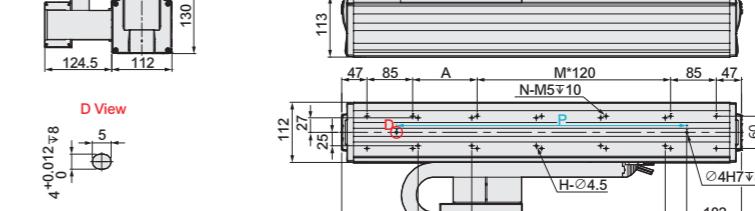
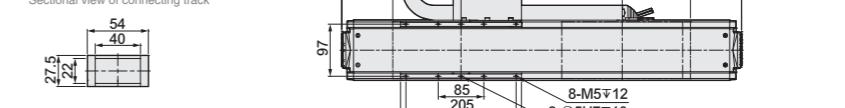
履帶截面圖
Sectional view of connecting track

有效行程 stroke	50	110	170	230	290	350	410	470	530	590	650	710	770	830	890	950	1010
L	744	804	864	924	984	1044	1104	1164	1224	1284	1344	1404	1464	1524	1584	1644	1704
A	120	60	120	60	120	60	120	60	120	60	120	60	120	60	120	60	120
B	100	40	100	40	100	40	100	40	100	40	100	40	100	40	100	40	100
P	540	600	660	720	780	840	900	960	1020	1080	1140	1200	1260	1320	1380	1440	1500
M	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
H	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
KG	24.7	25.7	26.7	27.6	28.6	29.5	30.5	31.5	32.4	33.4	34.3	35.3	36.3	37.2	38.2	39.1	40.1

ELR25-06-LW-N



CHELIC可提供圖面

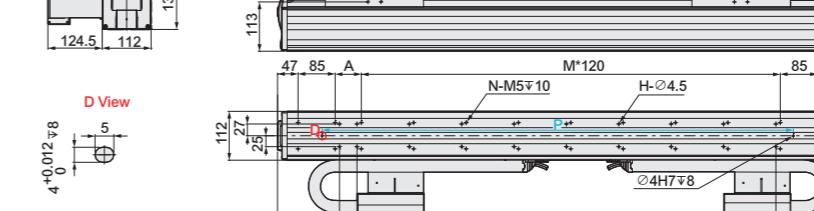
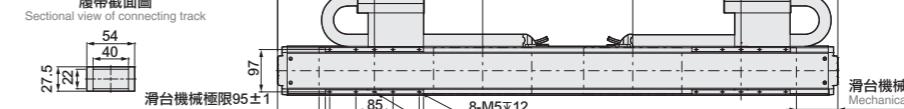
履帶截面圖
Sectional view of connecting track

有效行程 stroke	120	180	240	300	360	420	480	540	600	660	720	780	840	900	960	1020	1080	1140	1200	1260
L	564	624	684	744	804	864	924	984	1044	1104	1164	1224	1284	1344	1404	1464	1524	1584	1644	1704
A	60	120	60	120	60	120	60	120	60	120	60	120	60	120	60	120	60	120	60	120
B	40	100	40	100	40	100	40	100	40	100	40	100	40	100	40	100	40	100	40	100
P	360	420	480	540	600	660	720	780	840	900	960	1020	1080	1140	1200	1260	1320	1380	1440	1500
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
H	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
KG	13.7	14.6	15.5	16.4	17.3	18.2	19.1	20	20.9	21.9	22.8	23.7	24.6	25.5	26.4	27.3	28.2	29.1	30	31

ELR25-06-LW-D



CHELIC可提供圖面

履帶截面圖
Sectional view of connecting track

有效行程 stroke	50	110	170	230	290	350	410	470	530	590	650	710	770	830	890	950	1010
L	744	804	864	924	984	1044	1104	1164	1224	1284	1344	1404	1464	1524	1584	1644	1704
A	120																



最大行程 Maximum Stroke	1940mm
最高速度 Maximum Speed	2500mm/s
連續推力 Continuous thrust	187N
連續可搬重量 Continuous Payload	51kg
磁棒外徑 Outer dia. of stator	Ø32mm
直線滑軌 Linear Guide	42X9.5 1 pcs

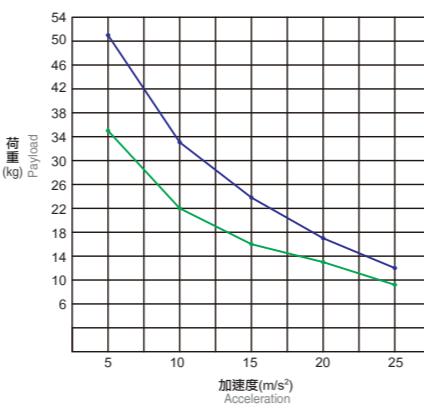
基本仕樣 Specification

規格 Spec	型號 Model		LMR32-06	LMR32-08
	位置重複精度 Repeatability (mm)		±0.002mm	
最大推力 Max. Thrust (N)		561	748	
連續推力 Continuous Thrust (N)		140	187	
連續可搬重量 Continuous Payload (kg)		35	51	
標準行程 Stroke / Pitch (mm)	單馬達 N	140-1940mm/60間隔	120-1260mm/60間隔	
	雙馬達 D	75-1695mm/60間隔	50-1010mm/60間隔	
最高速度 Maximum Speed (mm/s) ^{※1}		2500mm/s		
定子外徑 Outer Dia. of Stator		Ø32		
光學尺廠牌 Brand of Linear Scale		RENISHAW		
讀頭 Reader		RH200X05A00A		
Z相原點 Origin of Z Phase		A-9541-0037		
光學尺解析度 Resolution of Linear Scale		0.001mm		

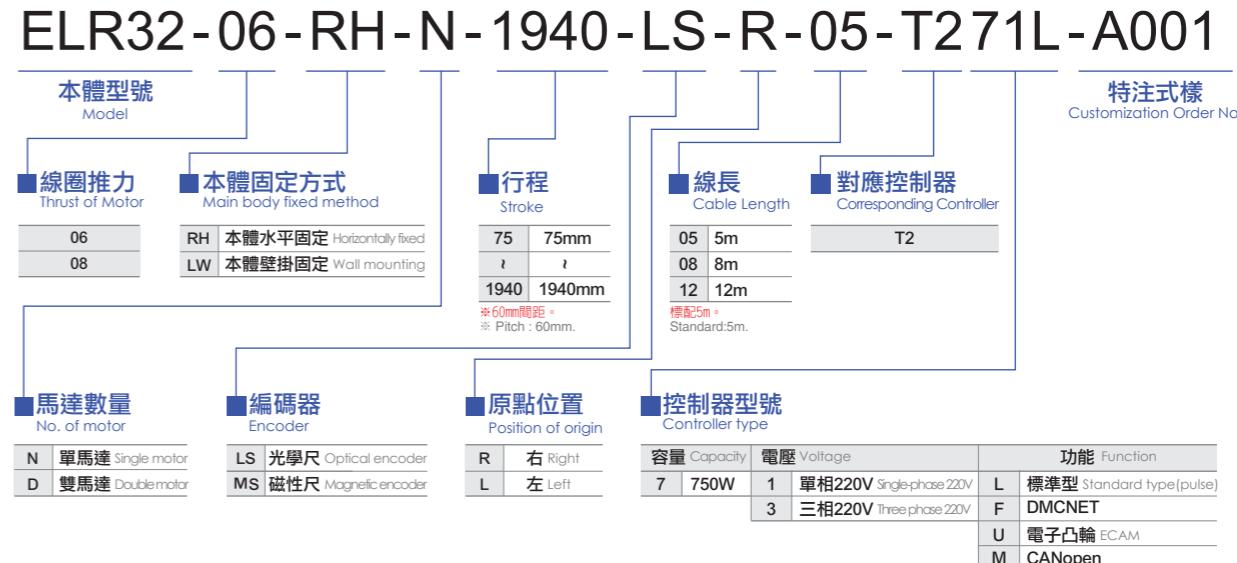
※1 連續可搬重量為到達最高速度時的數據，不同應用場景可能有所不同。
The continuous payload is the data when the robot runs with maximum speed and acceleration. Different application will have different result.

此圖僅供參考，出貨規格詳見尺寸圖面
The picture is just for the reference. Please check the actual dimensions on the drawing.

加速度-連續可搬重量 Acceleration-Continuous Payload



型號表示方式 Ordering Method

特注式樣
Customization Order No.

容許負載力距表 Allowable Overhang

		(單位 Unit:mm)		
		(單位 Unit:mm)		
LMR 32 - 06 - RH	水平安裝 Horizontal Installation ^{※2}	Speed (m/s)	荷重 Load (kg)	A B C
		1	35	315 84 48
		1	17	720 203 116
		1.5	22	216 99 54
		1.5	11	480 230 125
		2	14.3	180 126 61
		2	7	400 294 140
		2.5	10	200 195 83
		2.5	5	425 425 180
ELR 32 - 08 - RH	壁掛安裝 Wall Installation ^{※2}	Speed (m/s)	荷重 Load (kg)	A B C
		1	51	272 64 27
		1	25	660 180 77
		1.5	29	218 95 38
		1.5	15	480 225 92
		2	19	180 122 46
		2	10	380 275 102
		2.5	13	208 200 68
		2.5	6	495 490 165
ELR 32 - 06 - LW	ELR 32 - 08 - LW	Speed (m/s)	荷重 Load (kg)	A B C
		1	38	43 72 285
		1	19	105 178 640
		1.5	22	54 99 205
		1.5	11	125 230 480
		2	14.1	62 129 182
		2.5	10	83 195 200
		2.5	5	180 425 425
LMR 32 - 06	MY	173		
	MP	173		
	MR	111		
LMR 32 - 08	MY	209		
	MP	209		
	MR	111		

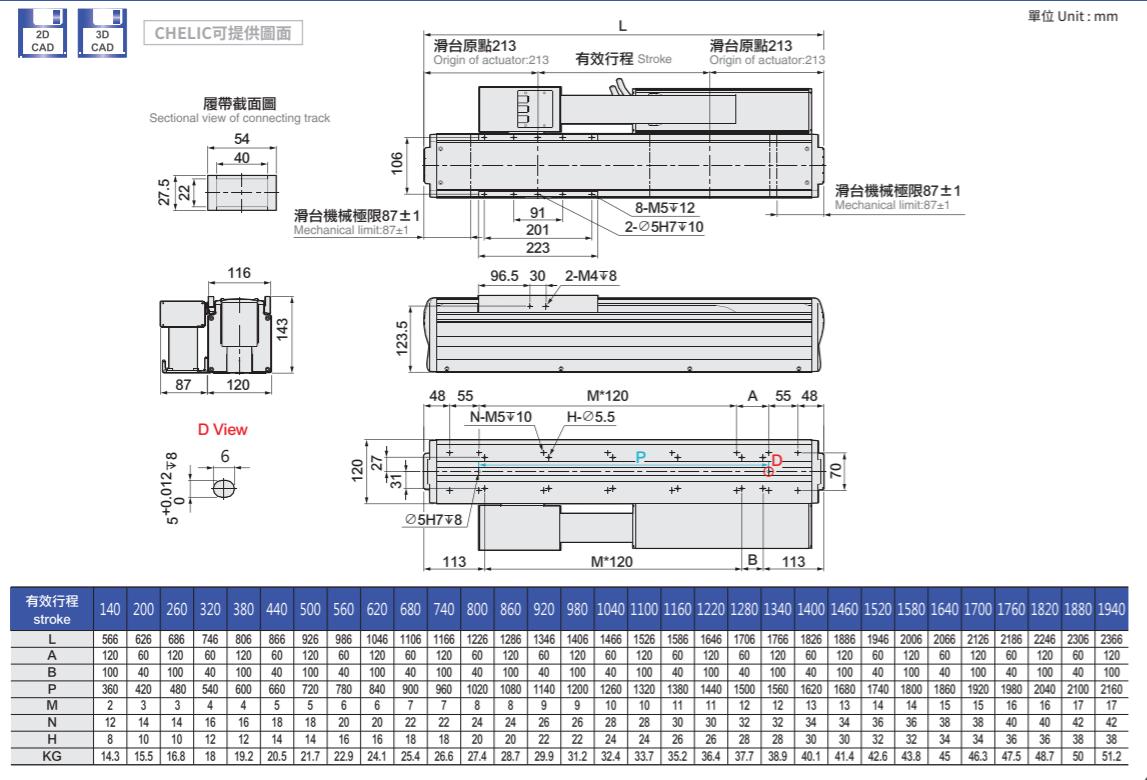
※2 相同速度下加速度時間不同，加速度也隨之變化，荷重也隨之改變，表為加速度時間0.2s。

Even the speed is same, if acceleration and acceleration time is changed, the payload will be different. Above chart is based on acceleration time 0.2 sec.

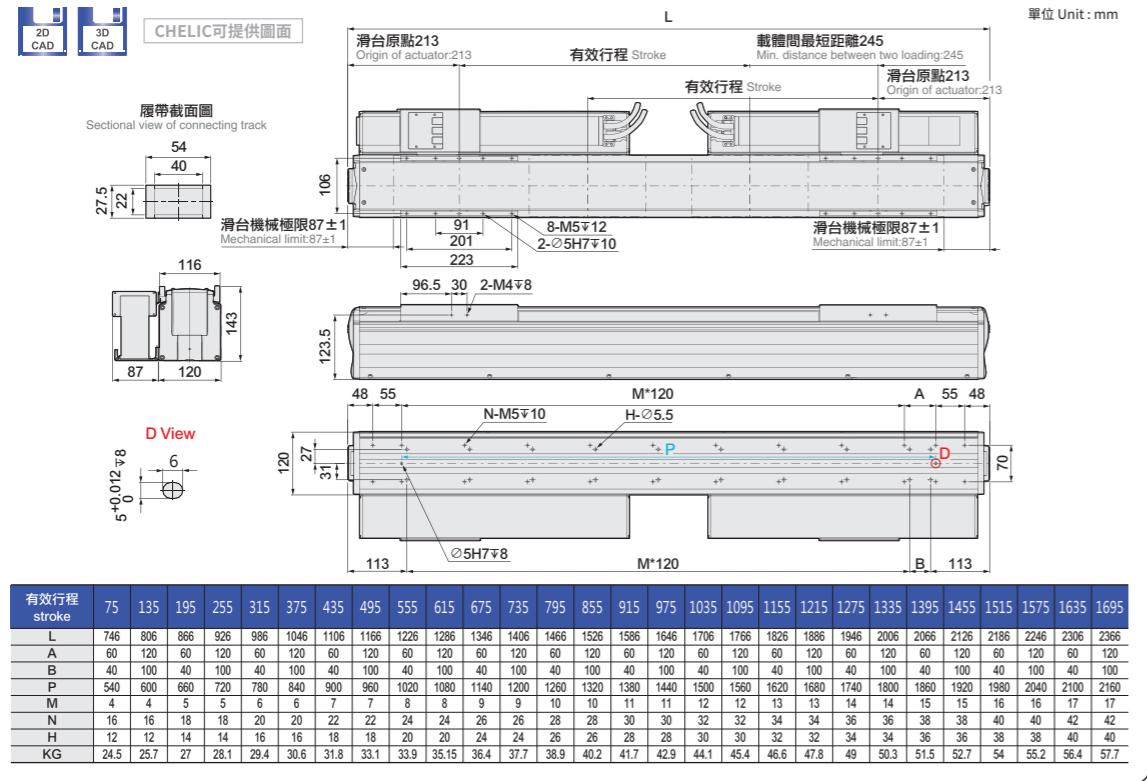
對應控制器一覽表 Corresponding Controller Chart

外觀 Exterior	控制器型號 Controller Model	選配介面 Control Mode	電氣規格 Electrical Spec.	詳細參閱 Reference Page
	T2	Pulse Control Mode		
		DMCNET		
		ECAM		
		CANopen		
			P.533	

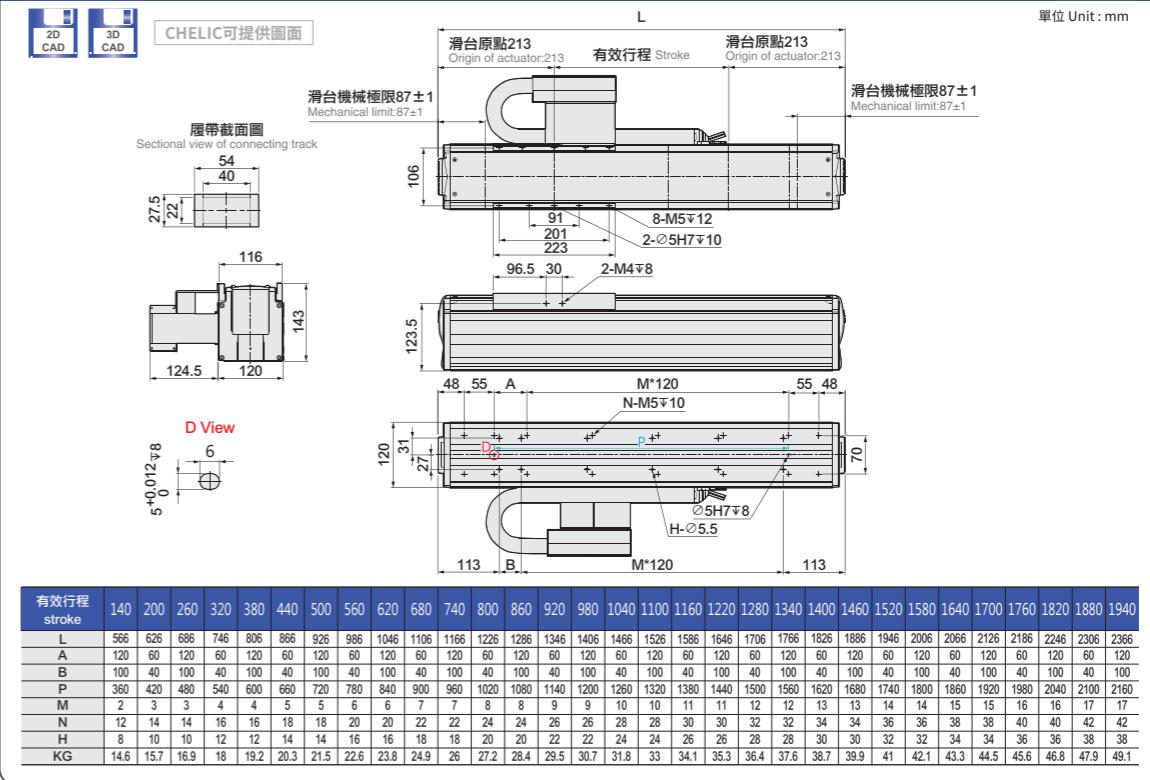
ELR32-06-RH-N



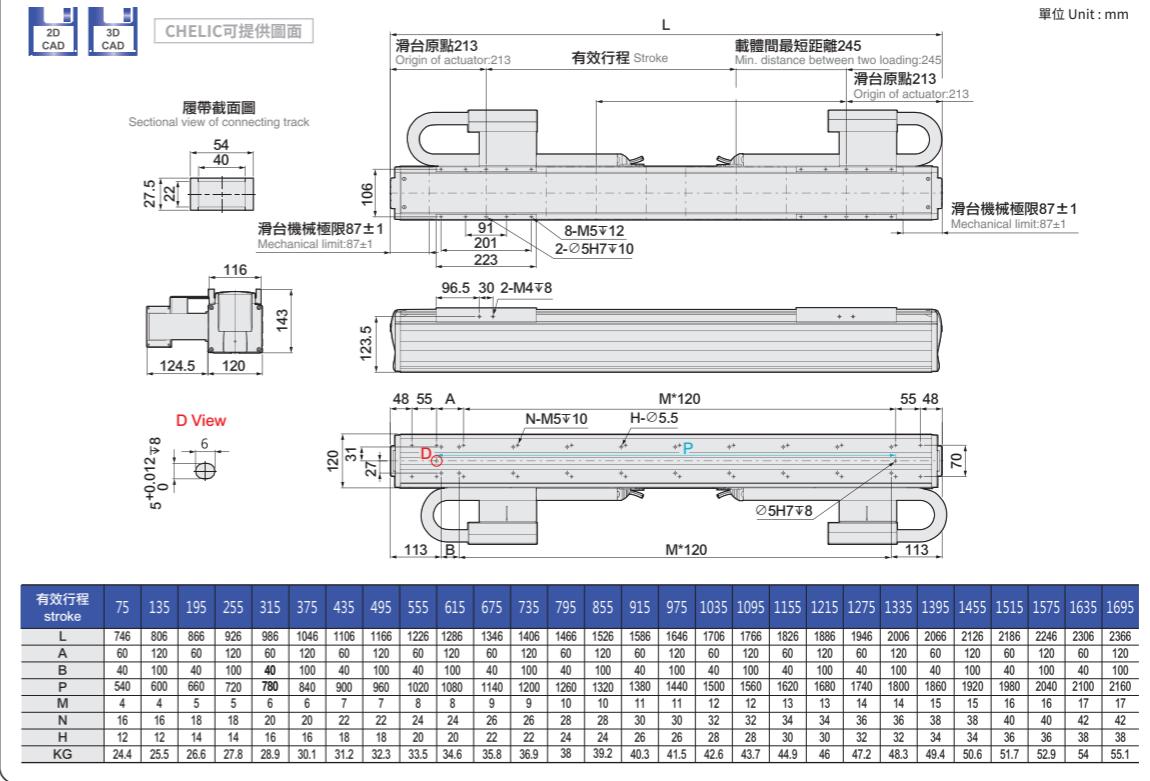
ELR32-06-RH-D



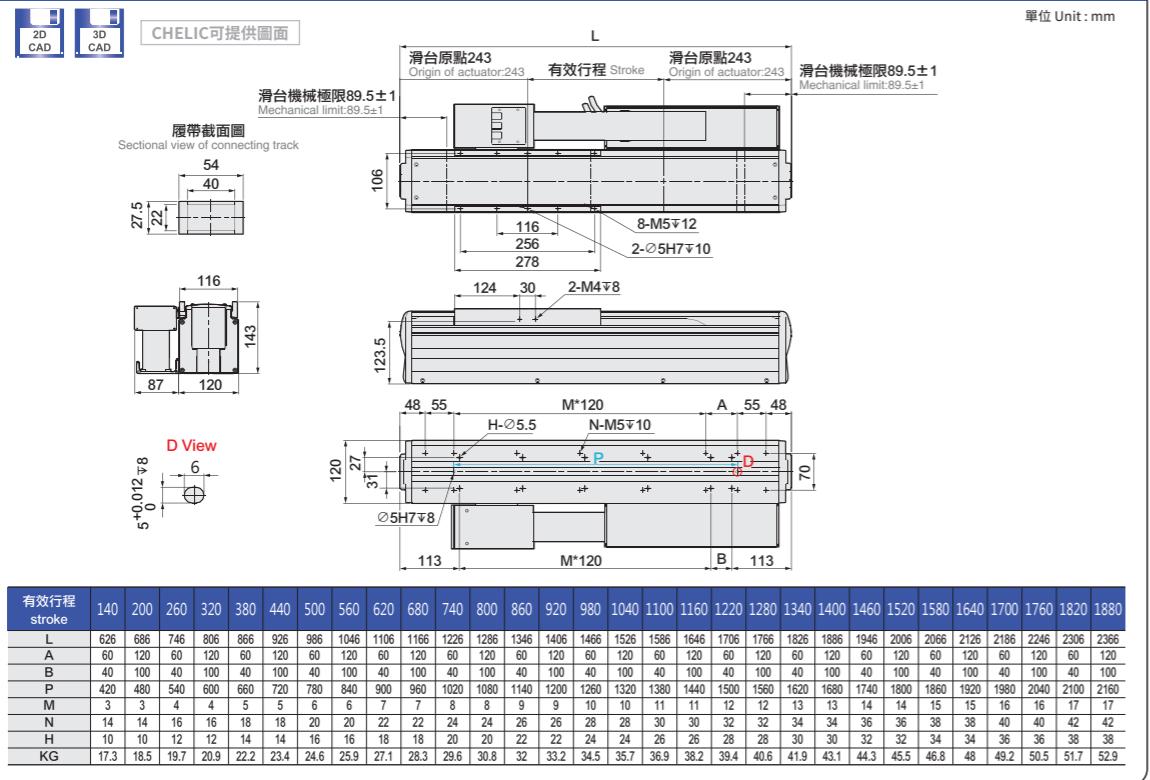
ELR32-06-LW-N



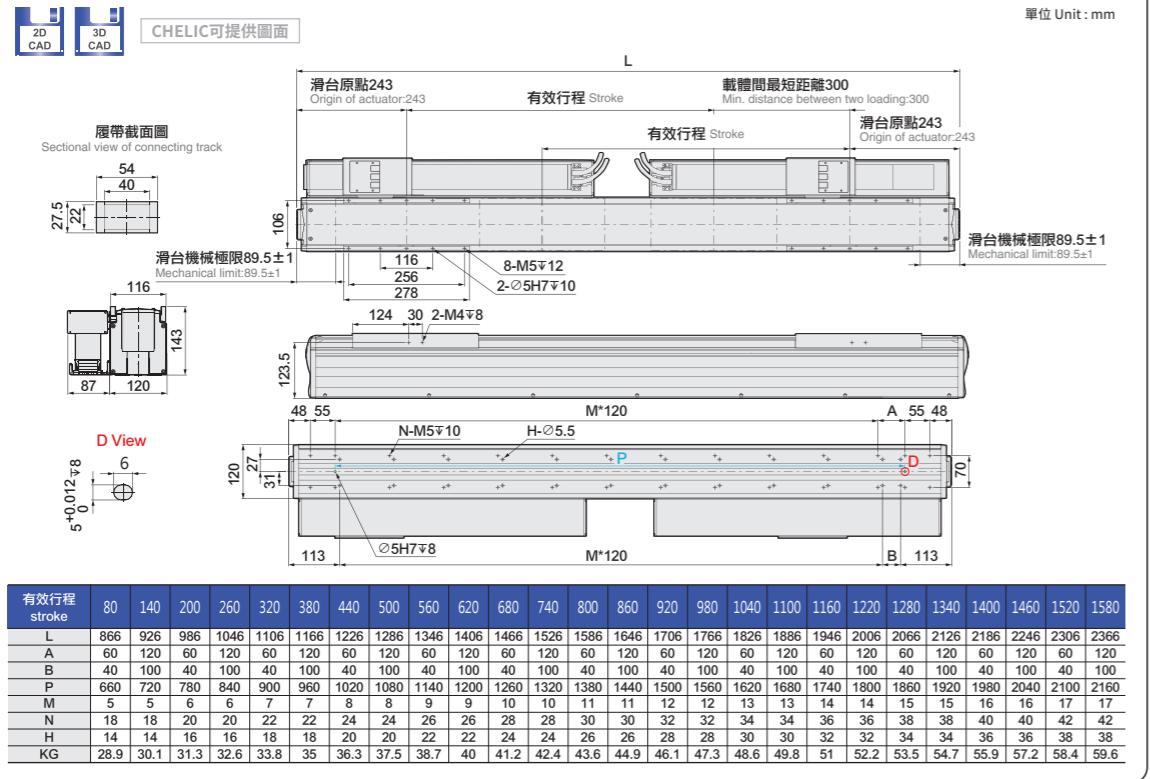
ELR32-06-LW-D



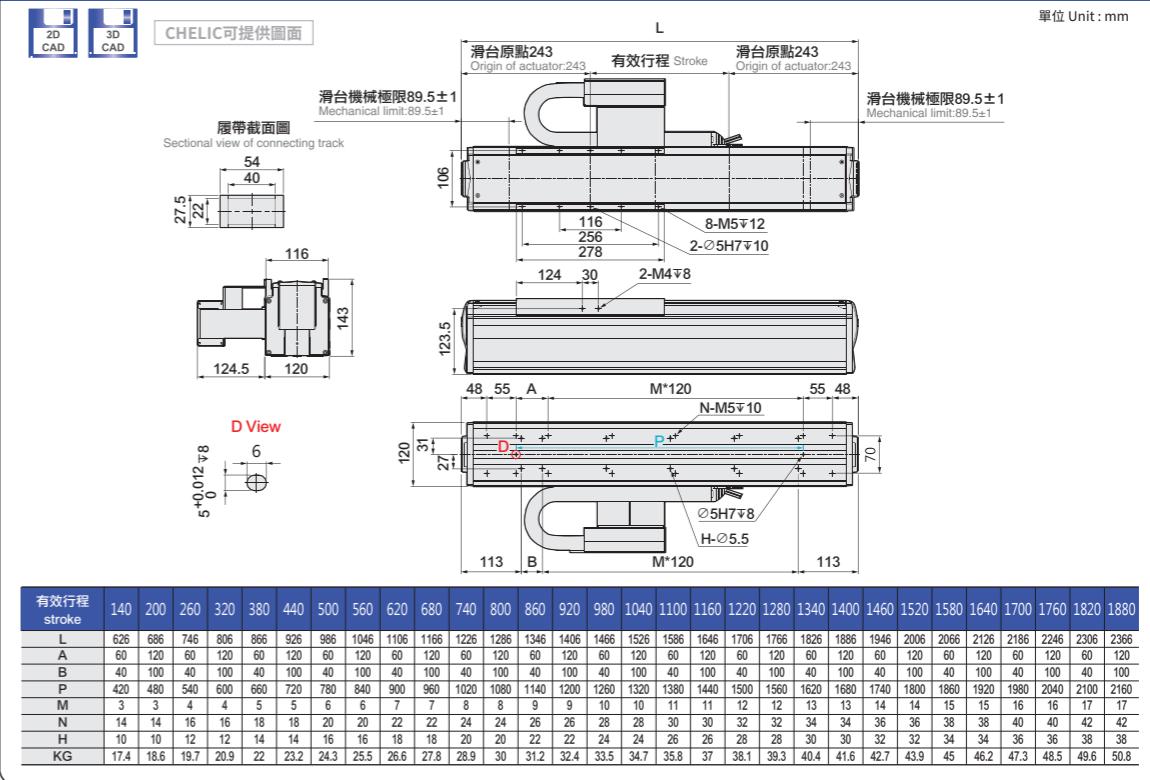
ELR32-08-RH-N



ELR32-08-RH-D



ELR32-08-LW-N



ELR32-08-LW-D

